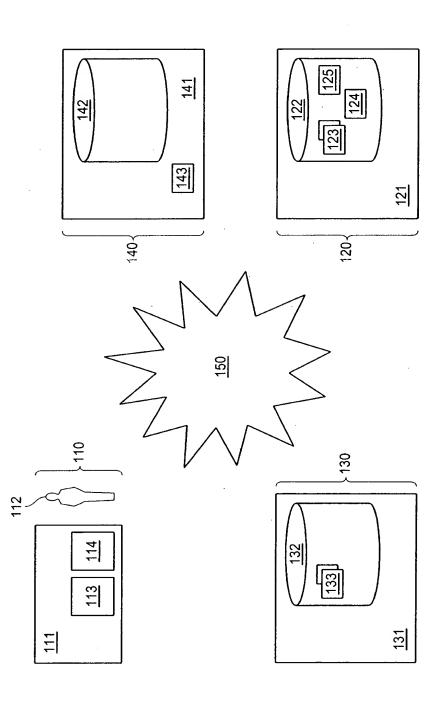
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Kasriel 09/888,374 155,1005.01 2 of 4

2/4

A CLIENT 110 IS READY TO MAKE A REQUEST FOR A DOCUMENT 123 FROM A MIRRORING SERVER 130 OR AN ORIGINATING SERVER 120 (DEPENDING UPON WHICH IS CLOSEST).

210

THE CLIENT 110 GENERATES A REQUEST MESSAGE 115 TO THE MIRRORING SERVER 130 OR THE ORIGINATING SERVER 120 FOR THE DOCUMENT 123. THE REQUEST MESSAGE 151 IDENTIFIES THE DOCUMENT 123 AND REQUESTS THAT THE MIRRORING SERVER 130 OR THE ORIGINATING SERVER 120 SEND THE DOCUMENT 123 TO THE CLIENT 110.

-211

THE DECODER 114 FORWARDS THIS REQUEST MESSAGE 151 TO THE PROXY ENCODER 140. IN FORWARDING THIS EXAMPLE, THE DECODER 114 INDICATES THAT THE CLIENT 110 IS COMPATIBLE WITH SYSTEMS THAT PROVIDE DELTA ENCODING.

212

THE PROXY ENCODER SERVER 140 FETCHES DOCUMENT 123 OR A TEMPLATE 124 THAT CORRESPONDS TO DOCUMENT 123 FROM EITHER THE ORIGINATING SERVER 120 OR THE MIRRORING SERVER 130. UPON OBTAINING THE CONTENT, THE PROXY ENCODER 140 UPDATES THE TEMPLATE 124 FOR THE DOCUMENT 123.

-213

THE DECODER 114 REQUESTS THE DOCUMENT 123 FROM THE PROXY ENCODER SERVER 140 BY MAKING A REQUEST, EITHER IMMEDIATELY OR AT A LATER POINT IN TIME, DEPENDING UPON PREFERENCES SET BY THE CLIENT OPERATOR 112.

-214

THE ENCODER PROXY 140 SENDS THE CONTENTS OF THE TEMPLATE 124, AND A TAG (ALSO KNOWN AS AN "ETAG") THAT CORRESPONDS TO THE VERSION OF THE TEMPLATE.

-215

THE CLIENT 110 REQUESTS A DOCUMENT 123 BY GENERATING A REQUEST MESSAGE 151. SIMILAR TO STEP 210 AND 211, THIS IS MEDIATED BY THE DECODER 114 SO THAT THE REQUEST IS DIRECTED TO THE PROXY ENCODER 140.

-216

TO FIG. 2B

FIG. 2A

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Kasriel 09/888,374 155.1005.01 3 of 4

3/4

## FROM FIG. 2A

THE PROXY ENCODER 140 RECEIVES THE REQUEST FROM THE DECODER 114. IF THE PROXY ENCODER 140 DETERMINES THAT THERE IS NOT A VERSION OF THE TEMPLATE 124 IN THE DATABASE 142, THE PROXY ENCODER 140 OBTAINS THE DOCUMENT 123. IF THE TEMPLATE 124 IS AVAILABLE, THE PROXY ENCODER 140 CALCULATES THE DIFFERENCES BETWEEN THE VERSION OF THE TEMPLATE 124 THAT IS AVAILABLE IN THE DATABASE 142 AND A NEWER VERSION OF THE DOCUMENT 123 SUCH AS MAY BE AVAILABLE FROM THE ORIGINATING SERVER 120 OF THE MIRRORING SERVER 130.

-217

THE PROXY ENCODER 140 SENDS EITHER THE DELTA INFORMATION 125 TO THE DECODER 114 (THAT IS, IF THE DECODER 114 CAN ACCEPT DELTA INFORMATION 125) OR IT ASSEMBLES THE DOCUMENT 123 FROM THE TEMPLATE 124 AND THE DELTA 125 AND TRANSMITS THE NEWLY ASSEMBLED DOCUMENT TO THE CLIENT 125.

-218

FIG. 2B

Kasriel 09/888,374 155.1005.01 4 of 4

4/4

THE CLIENT 110 GENERATES A REQUEST MESSAGE 115 TO THE MIRRORING SERVER 130 FOR THE DOCUMENT 123. THE REQUEST MESSAGE 151 IDENTIFIES THE DOCUMENT 123 AND REQUESTS THAT THE MIRRORING SERVER 130 SEND THE DOCUMENT 123 TO THE CLIENT 110.

IF THE MIRRORING SERVER 130 DOES NOT HAVE THE TEMPLATE INFORMATION 124, IT GENERATES A REQUEST MESSAGE 152 (SHOWN IN FIGURE 1) TO THE ORIGINATING SERVER 120 FOR THE TEMPLATE INFORMATION 124. THIS STEP IS NOT NEEDED IF THE MIPRORING SERVER 130 HAS THE TEMPLATE INFORMATION 124.

THE MIRRORING SERVER 130 HAS THE TEMPLATE INFORMATION 124, THE METHOD PROCEEDS WITH THE NEXT STEP.

THE MIRRORING SERVER 130 GENERATES A RESPONSE MESSAGE 153 (SHOWN IN FIGURE 1) TO THE CLIENT 110 WITH THE TEMPLATE INFORMATION 124.

THE CLIENT 110 (OR THE MIRRORING SERVER - 130, IF THE SYSTEM 100 IS SO CONFIGURED) GENERATES A DELTA REQUEST MESSAGE 154 TO THE ORIGINATING SERVER 120 FOR THE DELTA INFORMATION 125. IF THE CLIENT 110 GENERATES THE DELTA REQUEST MESSAGE 154, THE CLIENT 110 RECEIVES THE DELTA INFORMATION MESSAGE 155 FROM THE ORIGINATING SERVER 120. IF THE MIRRORING SERVER 130 GENERATES THE DELTA REQUEST MESSAGE 154, THE MIRRORING SERVER 130 RECEIVES THE DELTA INFORMATION MESSAGE 155 FROM THE ORIGINATING SERVER 120.

THE CLIENT 110 INTEGRATES THE TEMPLATE INFORMATION 124 AND THE DELTA INFORMATION 125 INTO A UNIFIED DOCUMENT 123 FOR PRESENTATION, INTEGRATION OF THE TEMPLATE INFORMATION 124 AND THE DELTA INFORMATION 125 IS FURTHER DESCRIBED IN THE INCORPORATED DISCLOSURES.

- 311

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312(a)

312(b)

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FIG. 3

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